



EOSC-Pillar

Coordination and Harmonisation of National & Thematic Initiatives to support EOSC

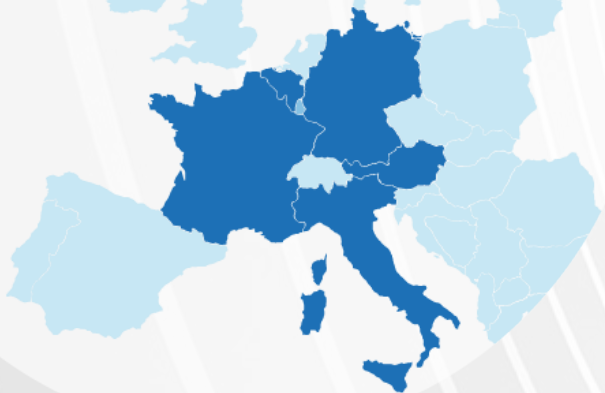
“National Initiatives” Survey Results



EOSC-Pillar has received funding from the European Union's Horizon 2020 research and innovation Programme under Grant Agreement No. 857650.

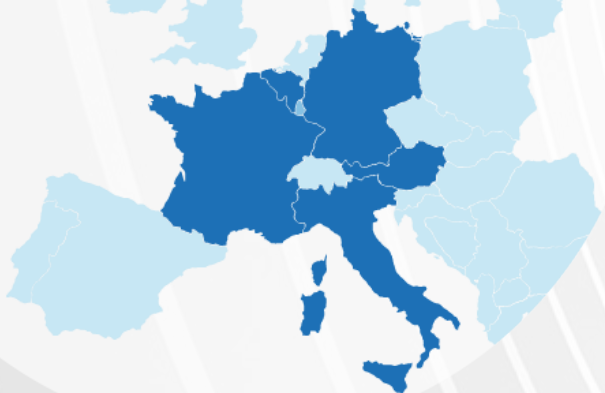
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Introduction





EOSC-Pillar

Coordination and Harmonisation of National & Thematic Initiatives to support EOSC

Website
www.eosc-pillar.eu

Grant agreement ID
857650

EU contribution
€ 6.880.965

Coordinator
GARR

Partners
18

EOSC-Pillar will coordinate national Open Science efforts across Austria, Belgium, France, Germany and Italy, and ensure their contribution and readiness for the implementation of the European Open Science Cloud.



Challenges addressed

**COORDINATION OF
NATIONAL INITIATIVES**

**ALIGNMENT OF
NATIONAL POLICIES**

**COMMUNICATION BETWEEN
THE EOSC PROJECTS**

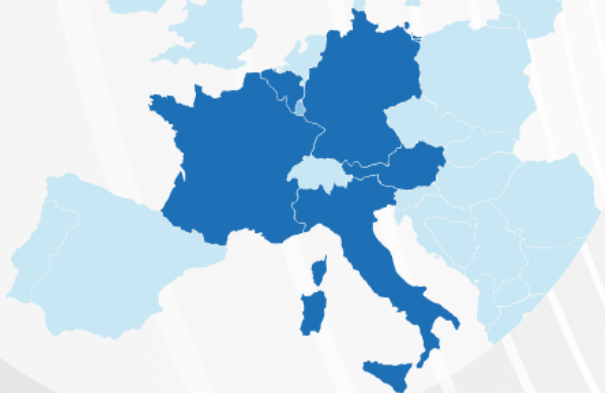
**STANDARDISATION
AND CERTIFICATION**

**UPTAKE OF
FAIR PRINCIPLES**

**COMPREHENSIVE
SERVICES LANDSCAPE**

**TRAINING FOR
THE EOSC**

**ENGAGEMENT OF
SCIENTIFIC COMMUNITIES**



Key Exploitable Results



**DIVERSE USE CASES AND
COMMUNITY-DRIVEN
PILOTS**



**POLICY AND LEGAL
FRAMEWORK, AND
BUSINESS MODELS**



**NATIONAL INITIATIVES
SURVEY**



**PROMOTION OF FAIR
CULTURE**



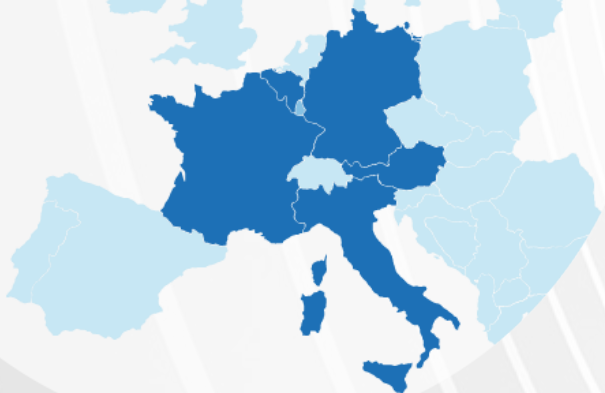
**SERVICES SOURCED FROM
THE OPEN CALL**



**COMMUNITY BUILDING
CONTENT, EVENTS AND
CHANNELS**



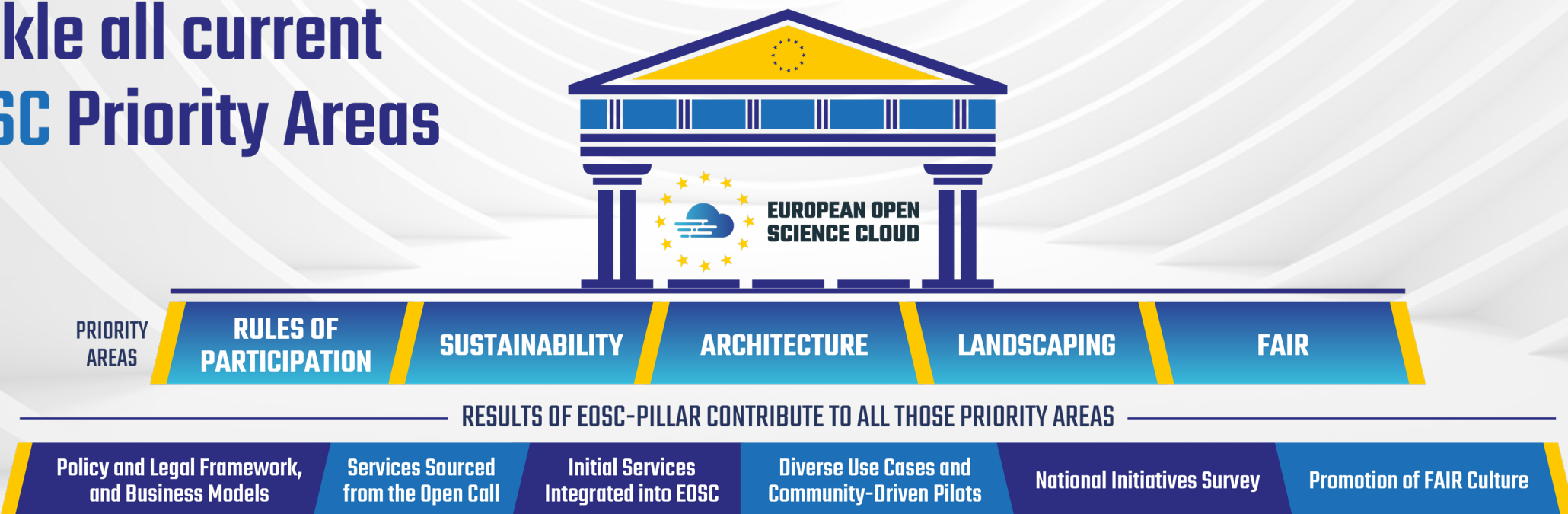
**NATIONAL SERVICE REGISTRY
& INITIAL SERVICES
INTEGRATED IN EOSC**



EOSC-Pillar

Coordination and Harmonisation of National & Thematic Initiatives to support EOSC

EOSC-Pillar's Results tackle all current EOSC Priority Areas

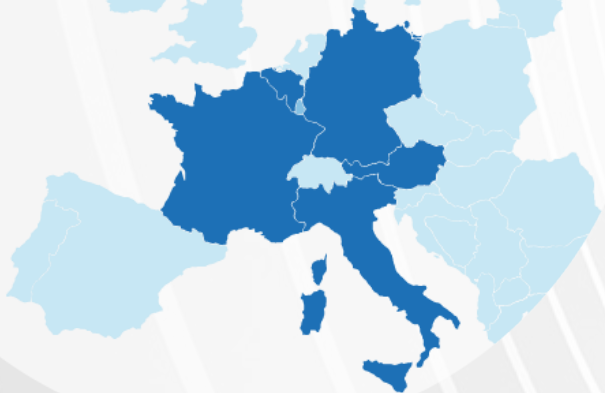


RESULTS OF EOSC-PILLAR CONTRIBUTE TO ALL THOSE PRIORITY AREAS



EOSC Regional Projects





The EOSC-Pillar survey



A mapping & analysis of the research infrastructure landscape in Europe

- * **Goal: creating a comprehensive picture**
 - * status quo of research data infrastructure
 - * on organisational, technical and legal aspects of data management
- * **Method: a representative online survey**
 - * definition of 4 target groups with relevance to EOSC
 - * focus on topics with relevance to EOSC
 - * national and European stakeholder involvement



Targets and topics



Targets

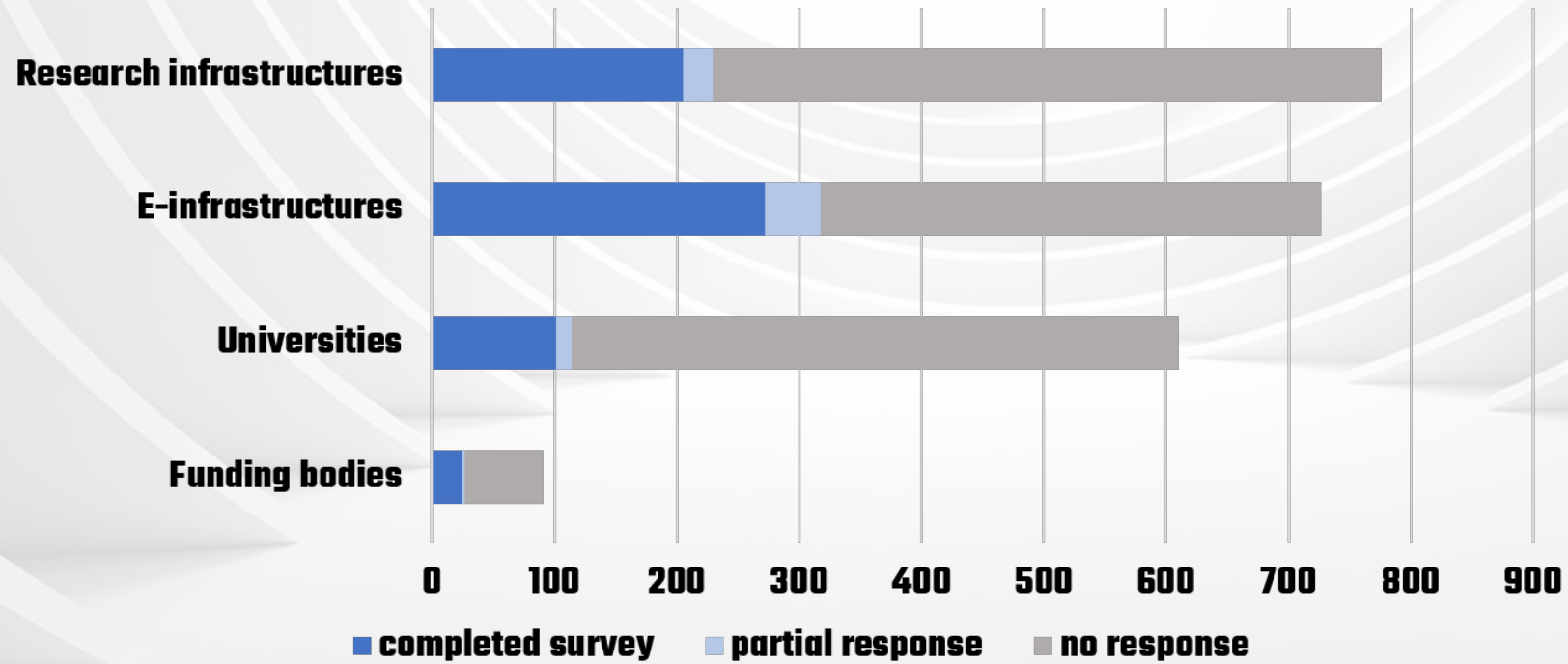
- * E-Infrastructures
- * Research Infrastructures
- * Universities
- * Funding Bodies

Topics

- * Business models, SLAs and user support
- * Access policies, AAI and licensing
- * Data management and FAIRness
- * User communities and services

Targets & response rate

Number of invitations and responses to the survey



FAIRness of survey data

* Survey data set and additional documentation will be curated and available for reuse in the AUSSDA Repository

* <https://doi.org/10.11587/VOSVGK>



The screenshot displays the AUSSDA website interface. At the top, the AUSSDA logo and name "AUSTRIAN SOCIAL SCIENCE DATA ARCHIVE" are visible, along with navigation links: "Add Data", "Search", "About", "User Guide", "Support", and "Anita Bodlos". Below the header, a green banner features the AUSSDA logo and the text "Public (AUSSDA) We make social science data accessible, creating opportunities for research and data reuse, benefitting science and society." The main content area shows the breadcrumb "AUSSDA > Public > EOSC Pillar 'National Initiatives' Survey (SUF edition)". To the right of the title are links for "Contact", "Share", and "Link". Below the title, a "Version 1.0" badge is present. The dataset description lists the authors: "Bodlos, Anita; Hönegger, Lisa; Kaczmirek, Lars; Beckmann, Volker; Breton, Vincent; Romier, Geneviève; Van Wezel, Jos; Streit, Achim; Stevanovic, Uros; Galeazzi, Fulvio; Tanlongo, Federica; Van Nieuwerburgh, Inge, 2019, 'EOSC Pillar 'National Initiatives' Survey (SUF edition)', <https://doi.org/10.11587/VOSVGK>, AUSSDA, V1". A "Cite Dataset" button is located below the description. To the right, a "Dataset Metrics" box shows "100 Downloads". The "Description" section provides a detailed overview of the survey, stating it is a cross-section study in Austria, Belgium, France, Germany, and Italy, aiming to landscape national initiatives of open research data and services with relevance to the European Open Science Cloud (EOSC). The "Subject" is listed as "Social Sciences". The "Keyword" section includes "Access to information and communications technology, Communication networks, Data, Data transmission, Dissemination of information, Information/library systems and services, Licences, Research, Scientific research, Social research, Surveys, Technology and innovation". At the bottom, there are tabs for "Files", "Metadata", "Terms", and "Versions".



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The EOSC-Pillar survey results

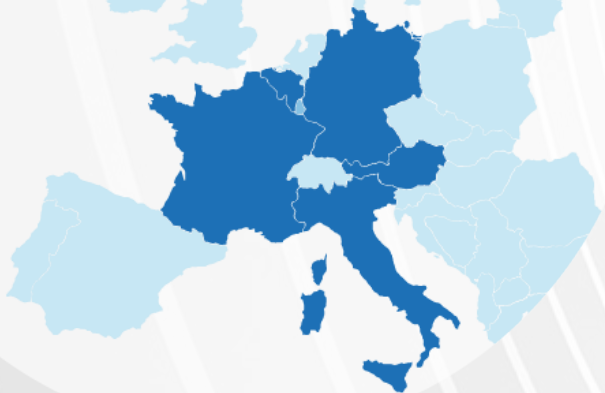
A glimpse into the data



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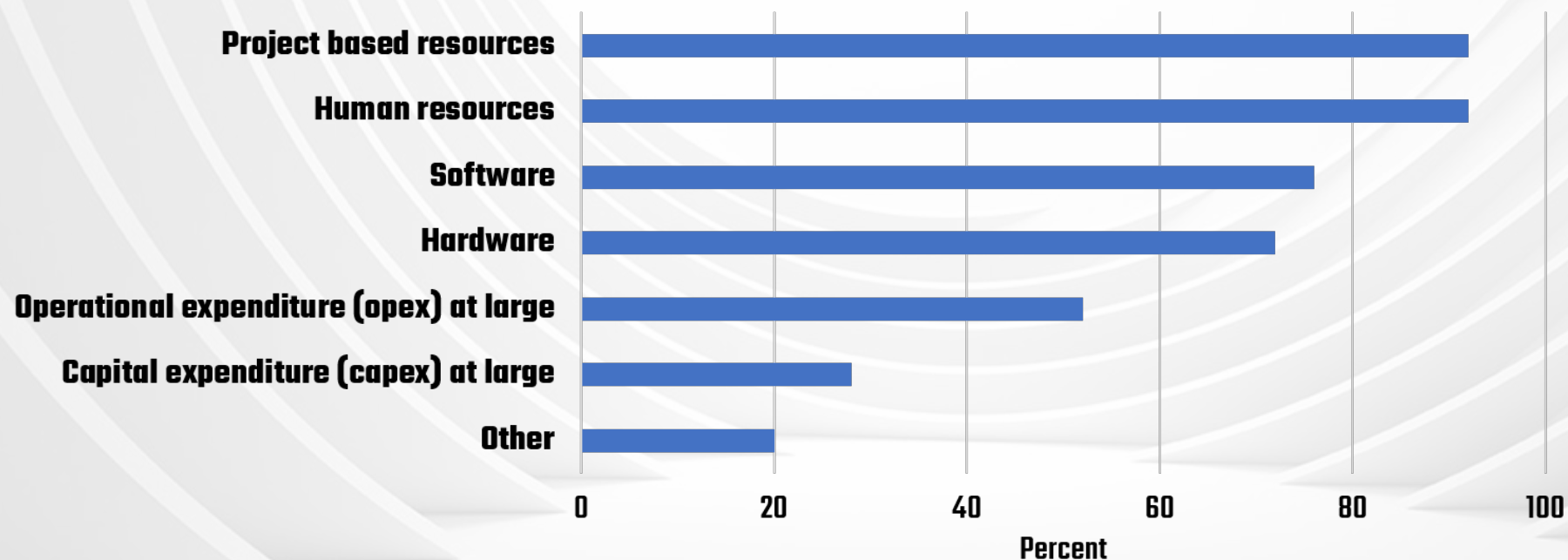




Business models

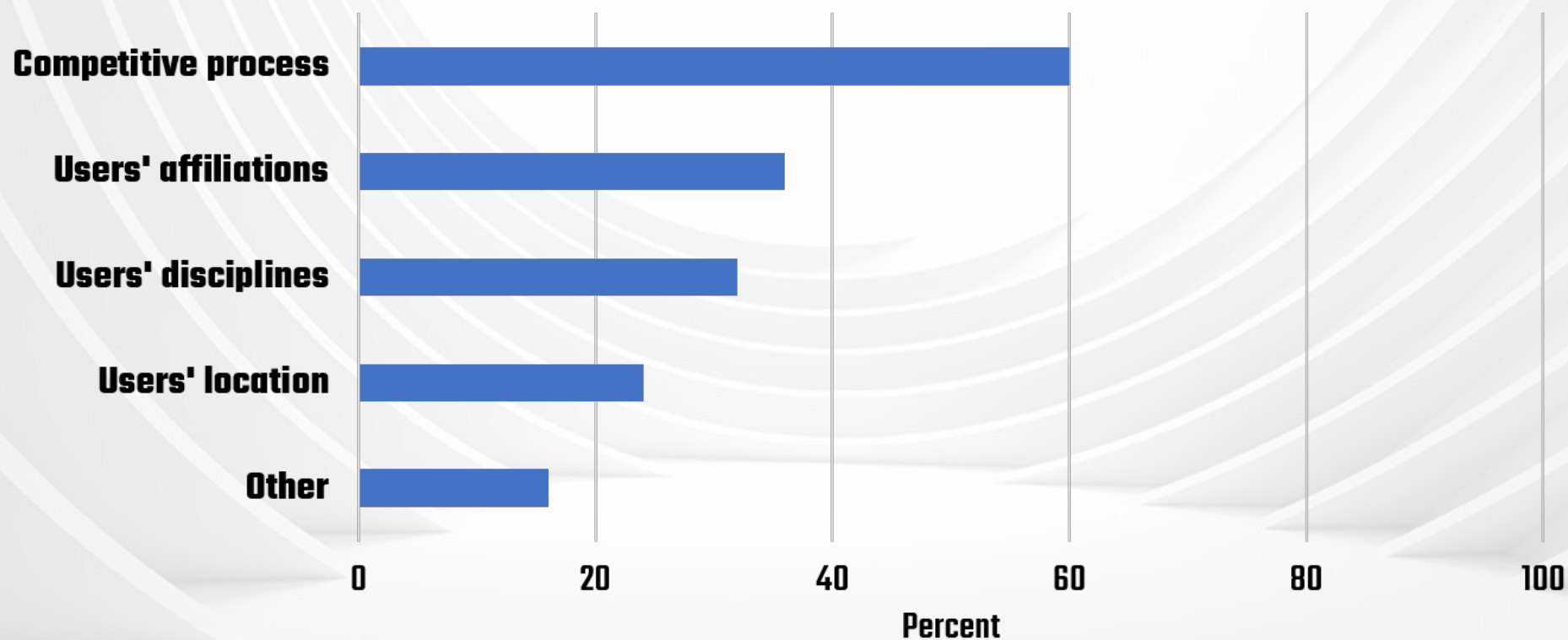


What funding bodies fund



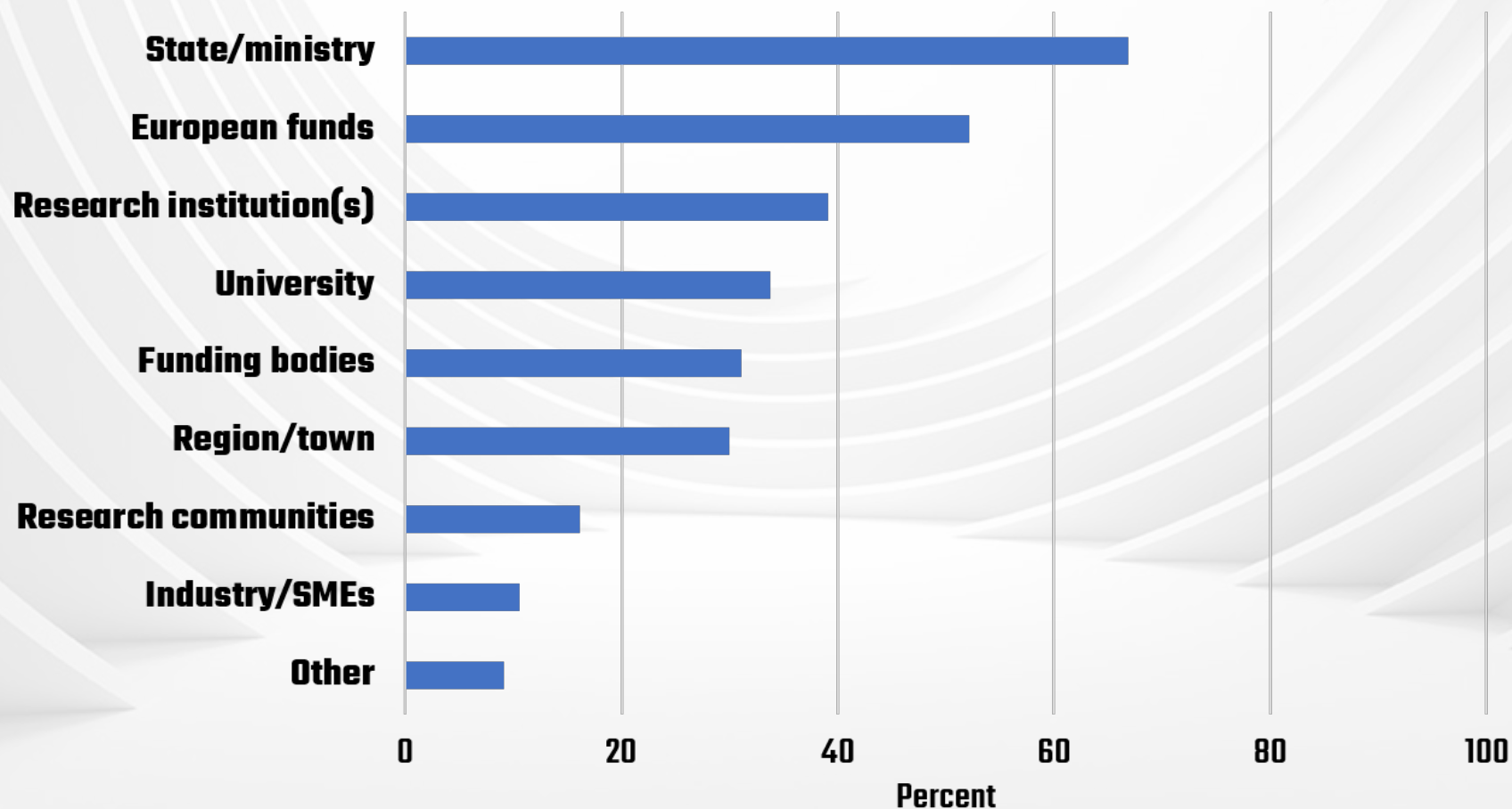
Note: question was asked to funding bodies; multiple choice question; total percentages in all countries, N = 25.

Rules for funding



Note: question was asked to funding bodies; multiple choice question; total percentages in all countries, N = 25.

Sources of funding for e-infrastructures & services providers

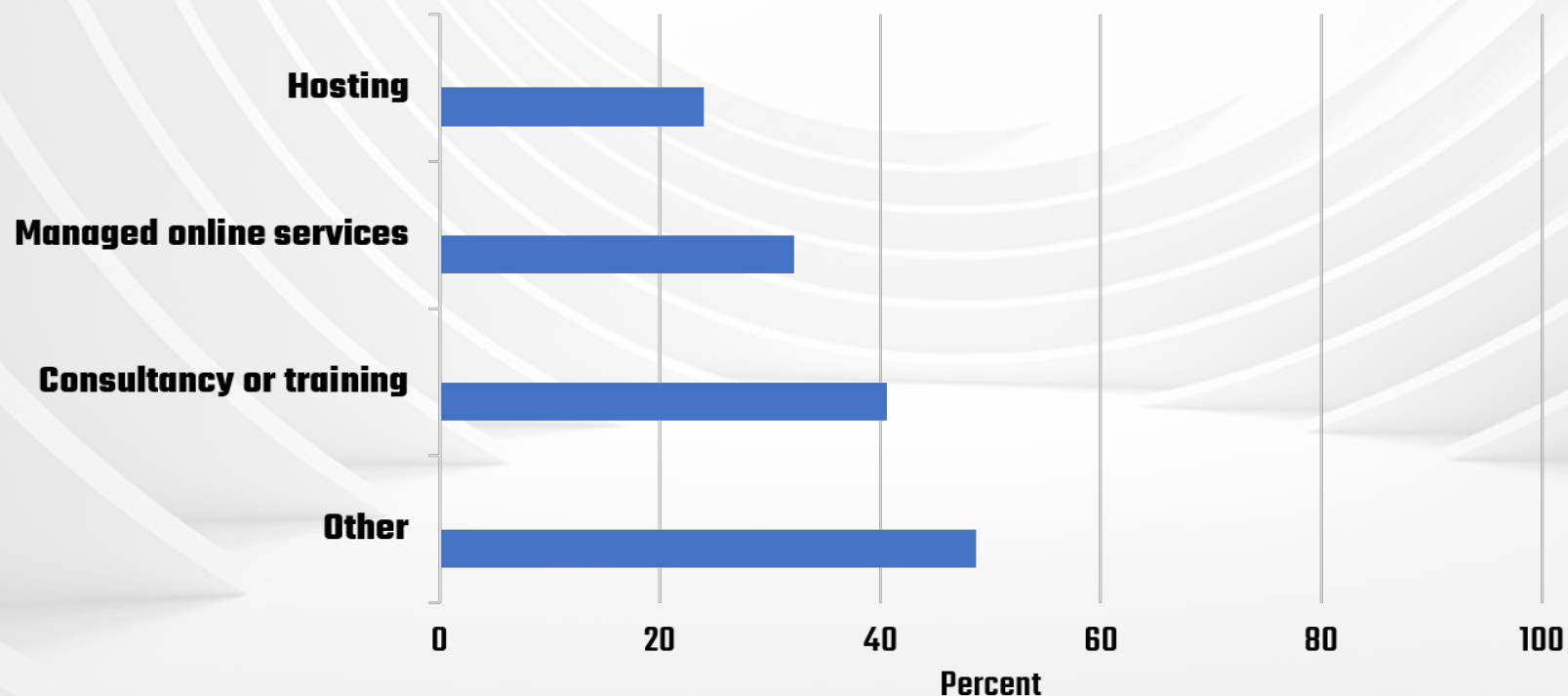


Note: question was asked to respondents representing **e-infrastructures**; multiple choice question, mean across all countries.

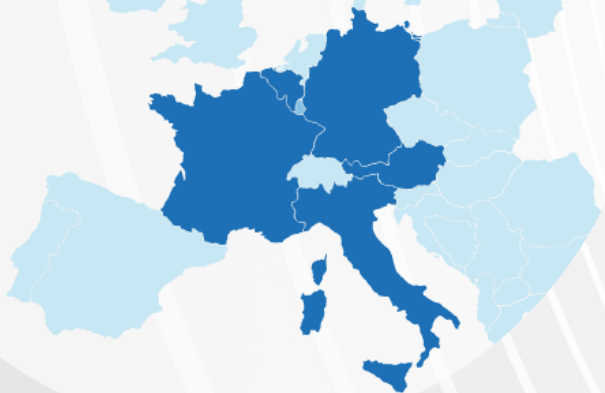
Own revenues of the e-infrastructures & services providers

* 37% acquire own revenues other than funding

* of these, the sources of revenues are:



Note: question was asked to respondents representing **e-infrastructures**; multiple choice question, mean across all countries.



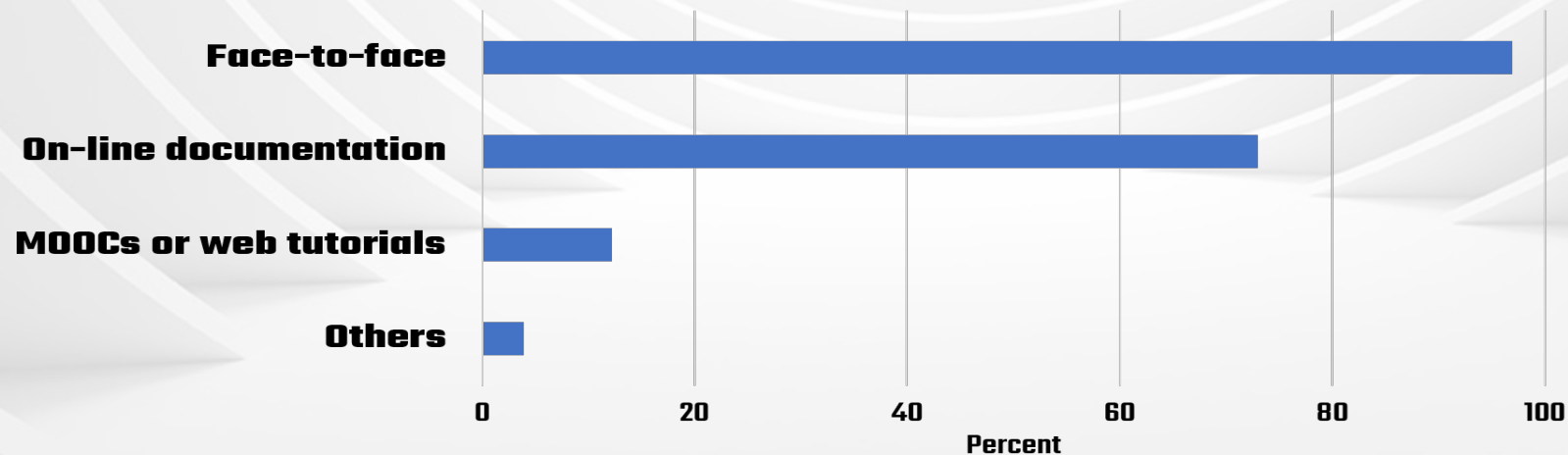
Service level agreements (SLAs) and user support

Service level agreements (SLAs)

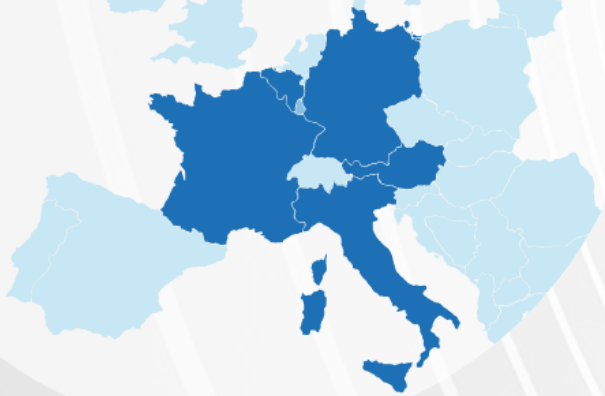
- * SLAs are offered for some or all services by about 1/3 of the e-infrastructures & services providers (and foreseen by 15%)
 - * mainly customized SLAs
- * About 20% of the e-infrastructures offer SLAs in the context of participation in a transnational organisation

User support & e-infrastructures

- * more than 90% describe their services via a website
- * feedback from users collected by 80%
- * user training offered by 77%
- * types of training:



Note: question was asked to respondents representing **e-infrastructures**; multiple choice question, mean across all countries.



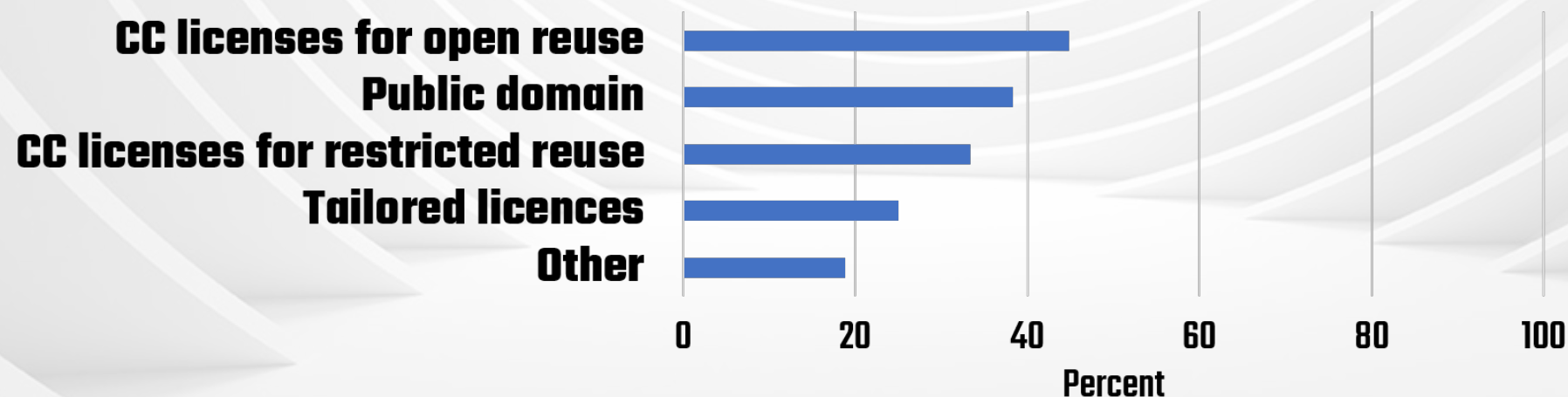
Access policies, privacy and legal aspects

Access regulations and federation of services

- * access to data/services mostly via some sort of access control
 - * ~34% have no data access restrictions
 - * on average 42% use group membership to restrict access
- * > 60% have an access policy in place
 - * ~50% of those without access policy plan to adopt one in the next years
- * We asked data/service providers whether they need support for federating their services with EOSC
 - * ~ 31% need support
 - * ~ 37% don't know

Legal aspects: personal data and licenses

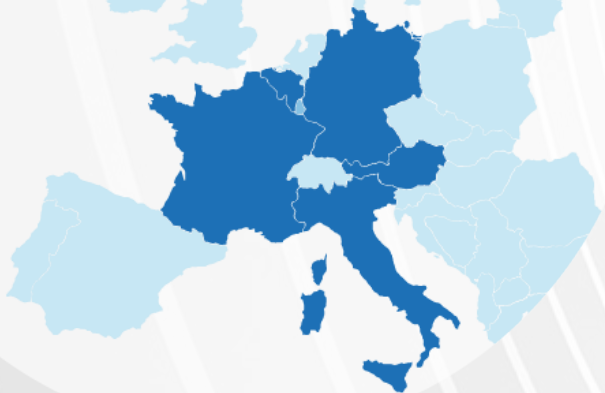
- * most data/service providers do not offer data containing personal data (< 25%)
- * Licenses used by repositories



Note: question was asked to respondents representing **e-infrastructures** who indicated that their organisation 'offer(s) data infrastructures which store and manage research data'; multiple choice questions; mean across all countries; percentages do not add to 100% as missings are not shown.

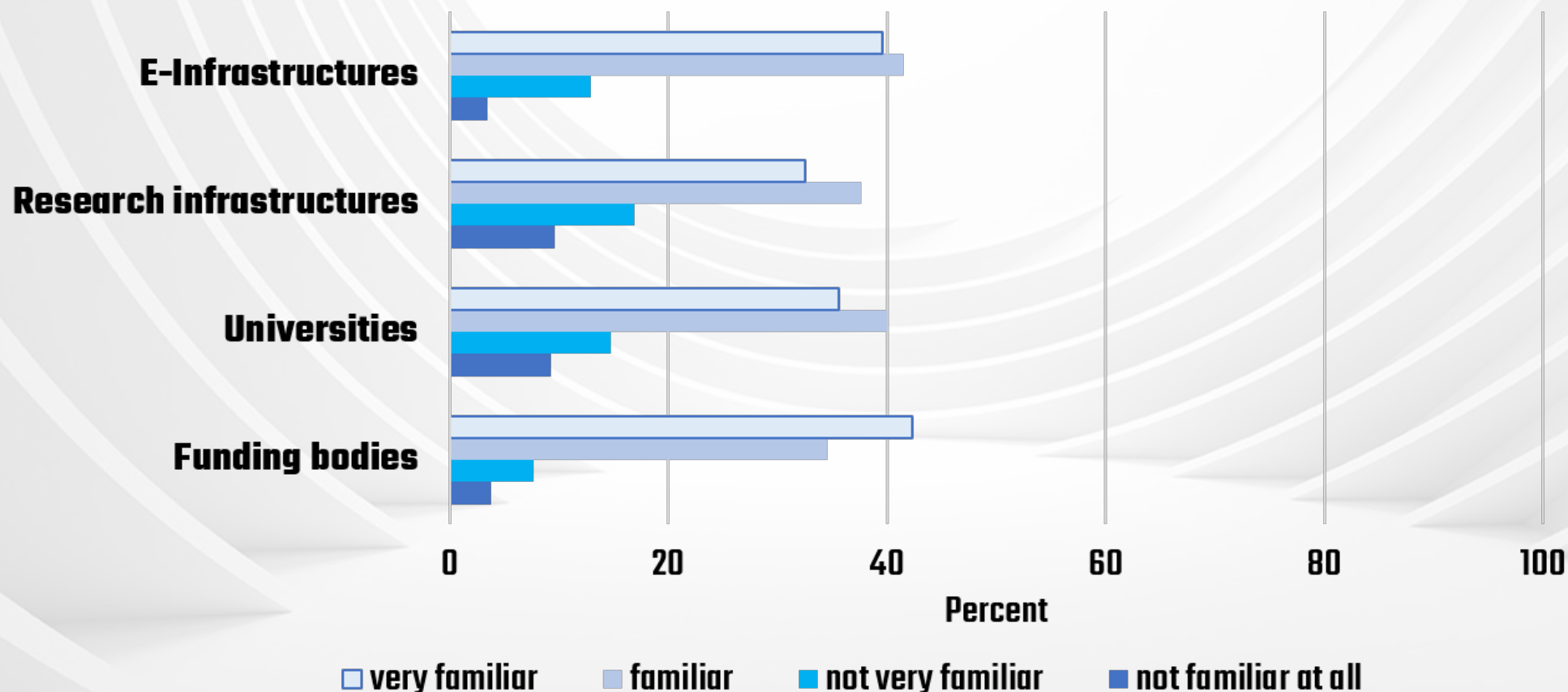
Policies

- * Percentages for written regulations and publicly visible policies (e-infrastructures)
 - * Research data management (RDM): 30%
 - * Open research (data): 35%
 - * Compliance of data to the FAIR principles: 18%
- * The figures suggest that 70 to 80% have no written regulations or publicly accessible policies on these topics!



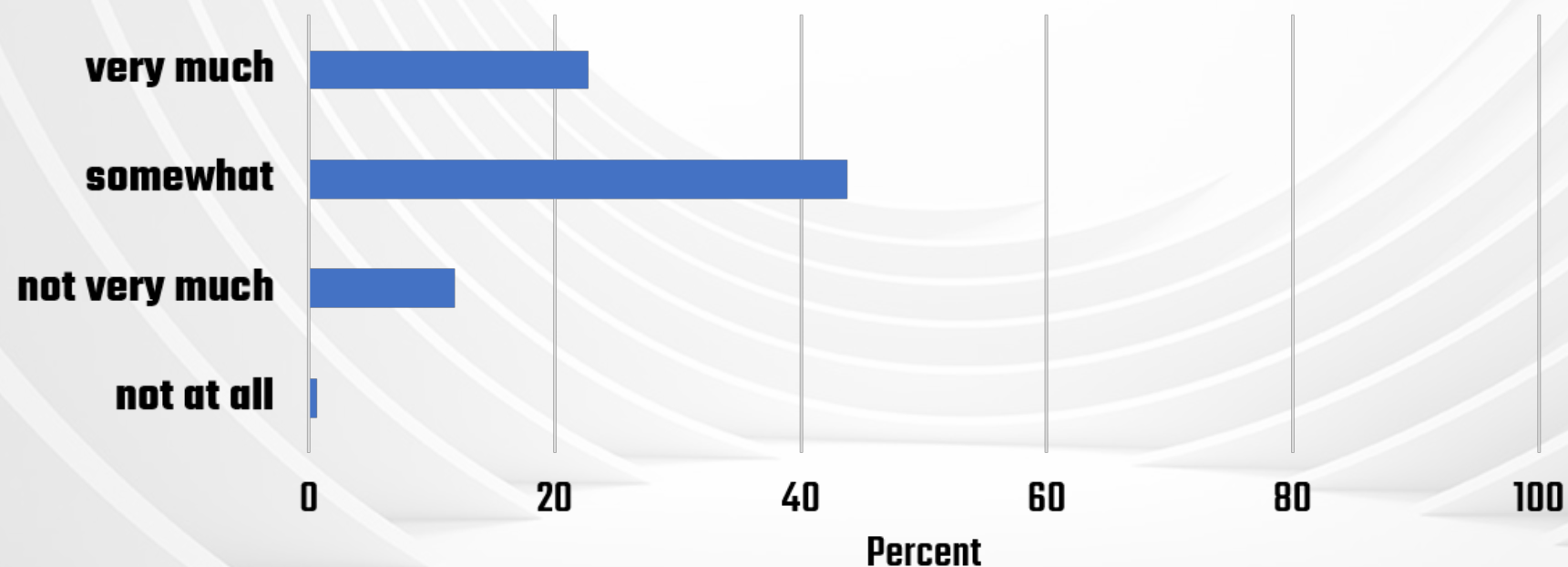
FAIRness of data

How familiar are you with the FAIR principles regarding data?



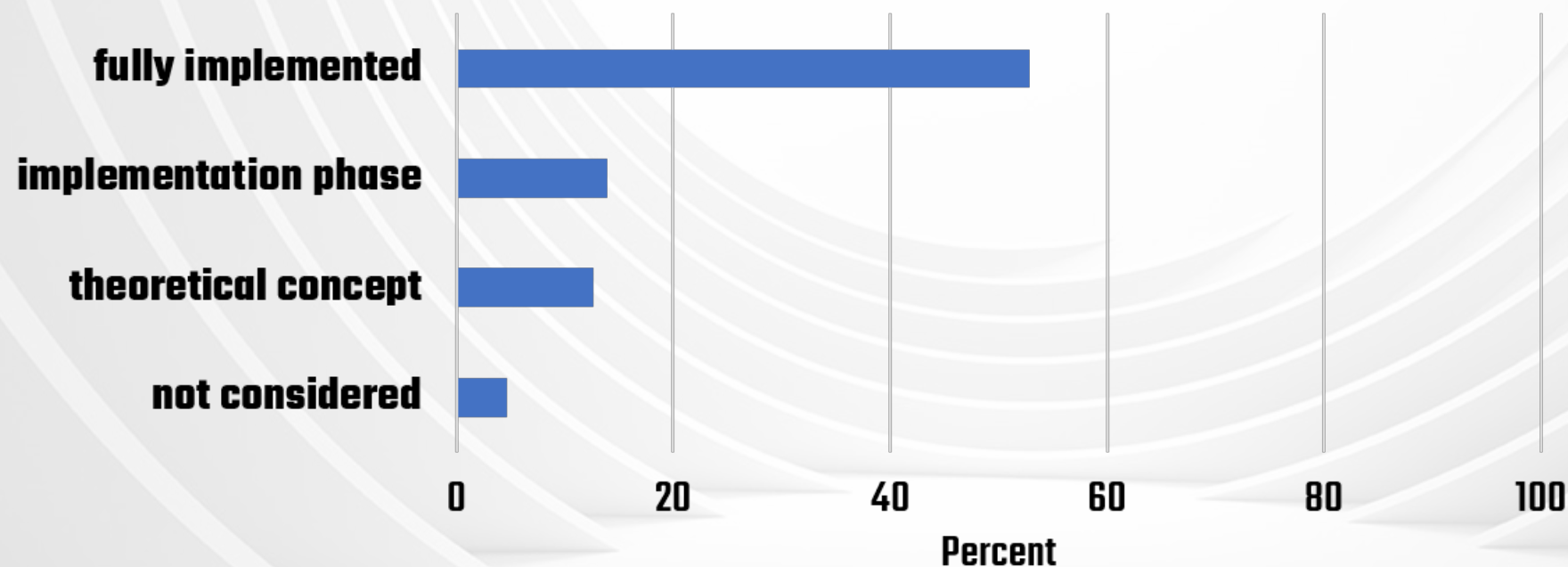
Note: mean across countries for e-infrastructures, research infrastructures and universities, total percentages for funding bodies (due to low N), percentages do not add up to 100% as missings and residuals are not shown.

How FAIR do you consider your data holdings?



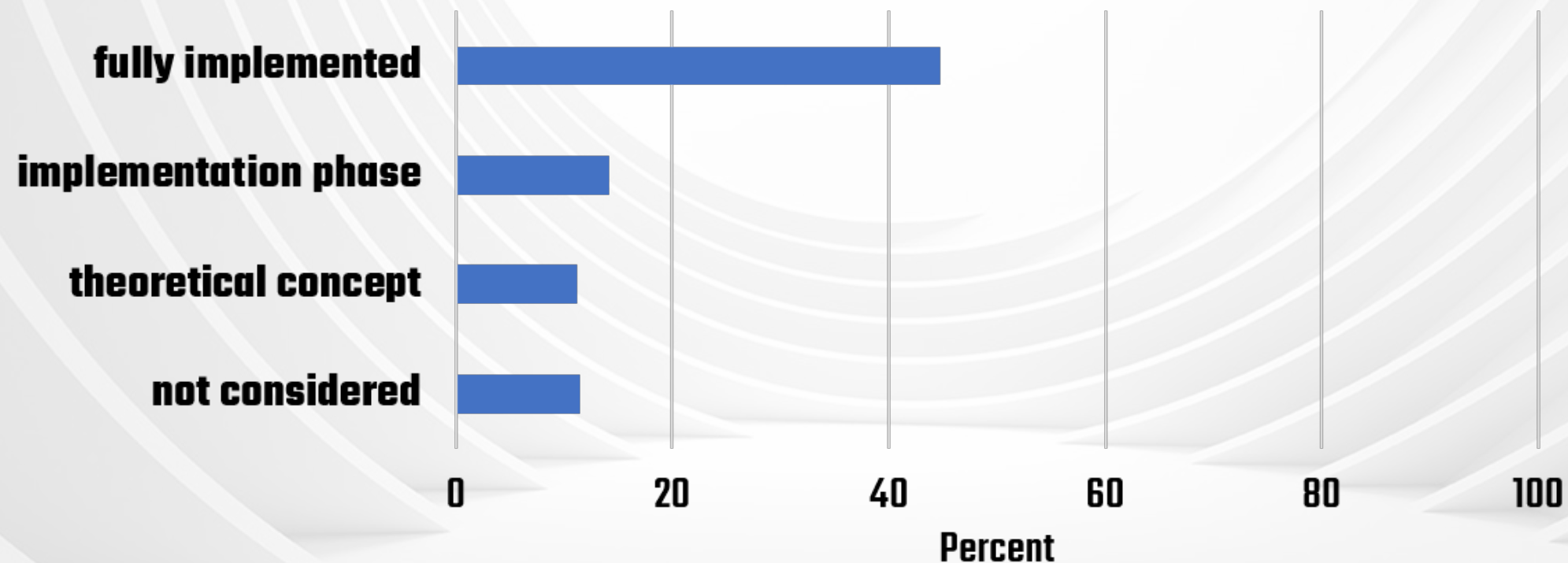
Note: question was asked to respondents representing **e-infrastructures** who indicated that their organisation 'offer(s) data infrastructures which store and manage research data' and who did not indicate to be 'not familiar at all' with the concept of FAIR data, mean across all countries; percentages do not add to 100% as missings are not shown.

Does your organisation provide a search feature for metadata?

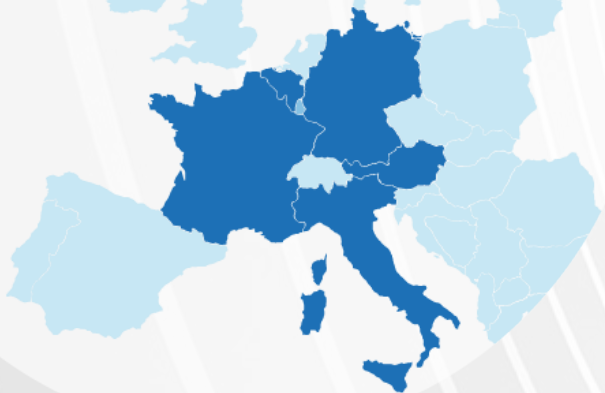


Note: question was asked to respondents representing **e-infrastructures** who indicated that their organisation 'offer(s) data infrastructures which store and manage research data'; mean across all countries; percentages do not add to 100% as missings are not shown; Source of question (adapted): Core Trust Seal (2018): Core Trustworthy Data Repositories Extended Guidance. available at: <https://www.coretrustseal.org/wp-content/uploads/2017/01/20180629-CTS-Extended-Guidance-v1.1.pdf>, last accessed: 7 November 2019, p. 24.

Does your organisation provide a data catalogue in a machine-readable format?



Note: question was asked to respondents representing **e-infrastructure**s who indicated that their organisation 'offer(s) data infrastructures which store and manage research data'; mean across all countries; percentages do not add to 100% as missings are not shown; Source of question (adapted): Core Trust Seal (2018): Core Trustworthy Data Repositories Extended Guidance. available at: <https://www.coretrustseal.org/wp-content/uploads/2017/01/20180629-CTS-Extended-Guidance-v1.1.pdf>, last accessed: 7 November 2019, p. 24.



Services and their users



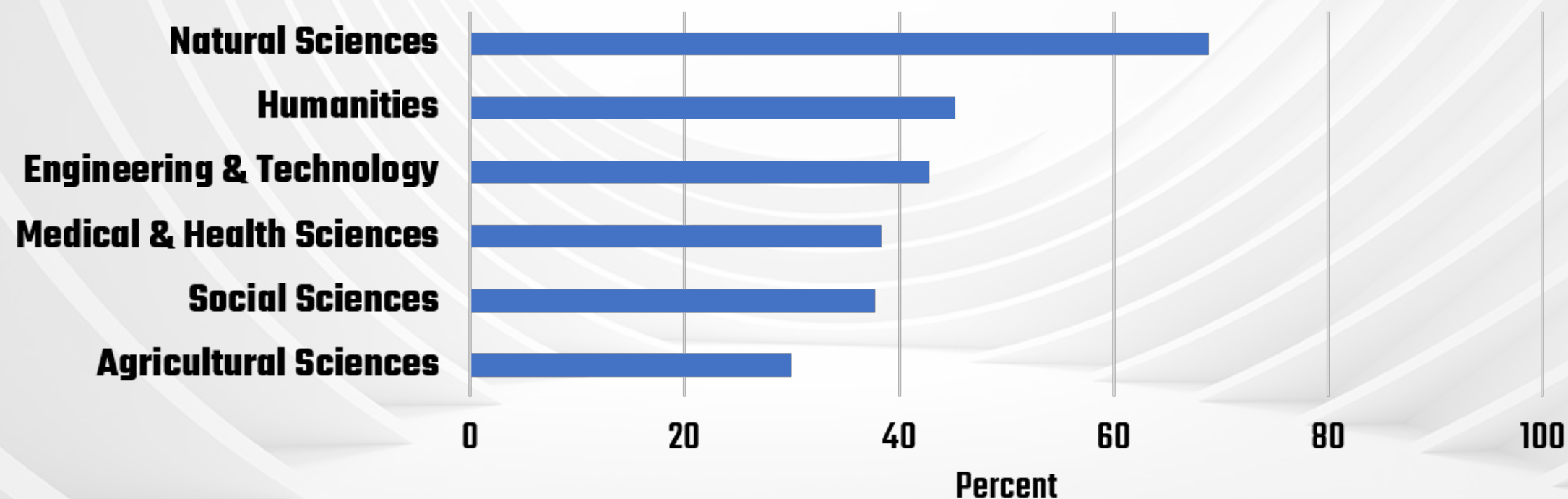
Services of e-infrastructures

Which service(s) does your organisation provide to the research community?

- * We offer data infrastructures which store and manage research data:
253 "yes"-responses**
- * We offer high-bandwidth networks which transport research data:
31 "yes"-responses**
- * We offer high-performance computing which can be used to process research data:
69 "yes"-responses**

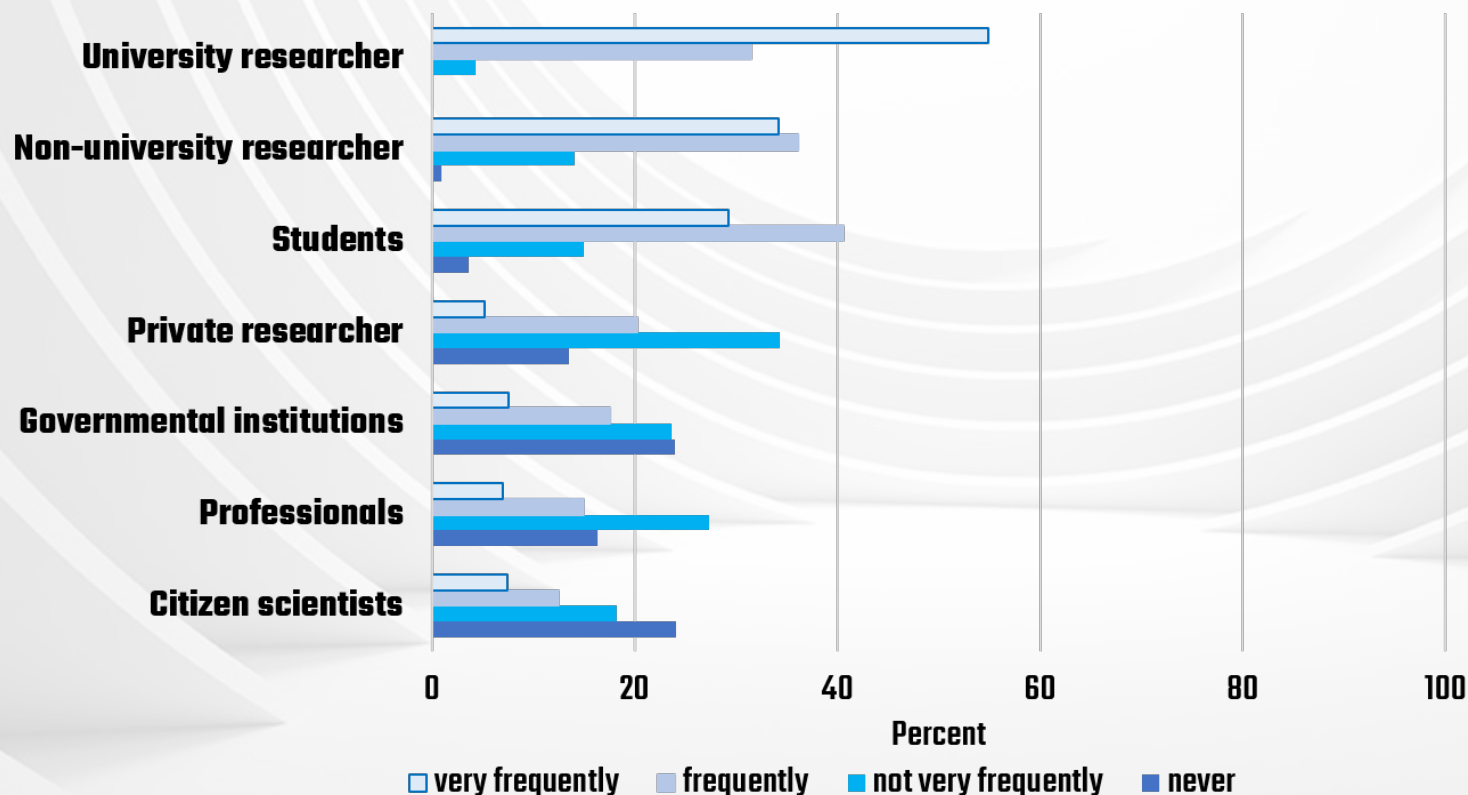
Source of categories (adapted): European Commission (2016): European Cloud Initiative - Building a competitive data and knowledge economy in Europe, available at: <https://ec.europa.eu/transparency/regdoc/rep/1/2016/EN/1-2016-178-EN-2-1.PDF>, last accessed: 6 November 2019, p. 2.

For which scientific discipline(s) does your organisation provide services?

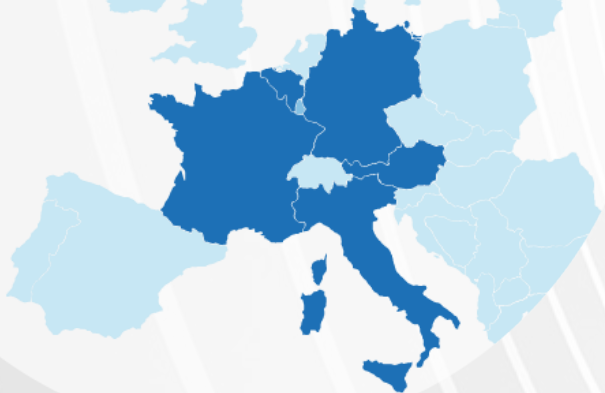


Note: question was asked to respondents representing **e-infrastructures**; multiple choice question, mean across all countries; source of the categories (unchanged): Organisation for Economic Co-operation and Development (2007): Revised Field of Science and Technology Classification in the Frascati Manual; available at: <https://www.oecd.org/science/inno/38235147.pdf>; last accessed 6 November 2019.

How frequently do the following groups use your services?



Note: question was asked to respondents representing **e-infrastructures**; mean across all countries; percentages do not add to 100% as missings and residuals are not shown.



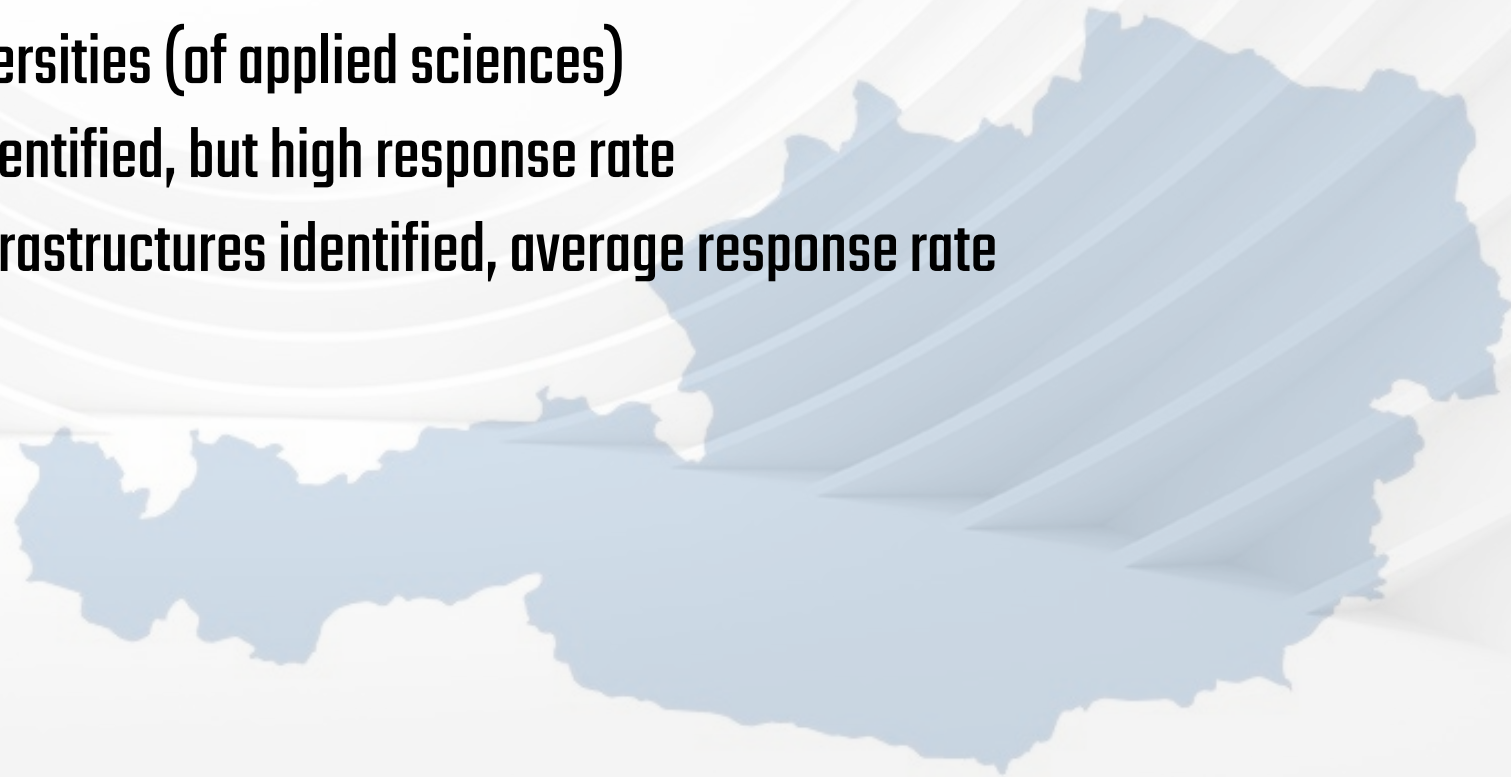
Country specific results



Country specifics – Austria

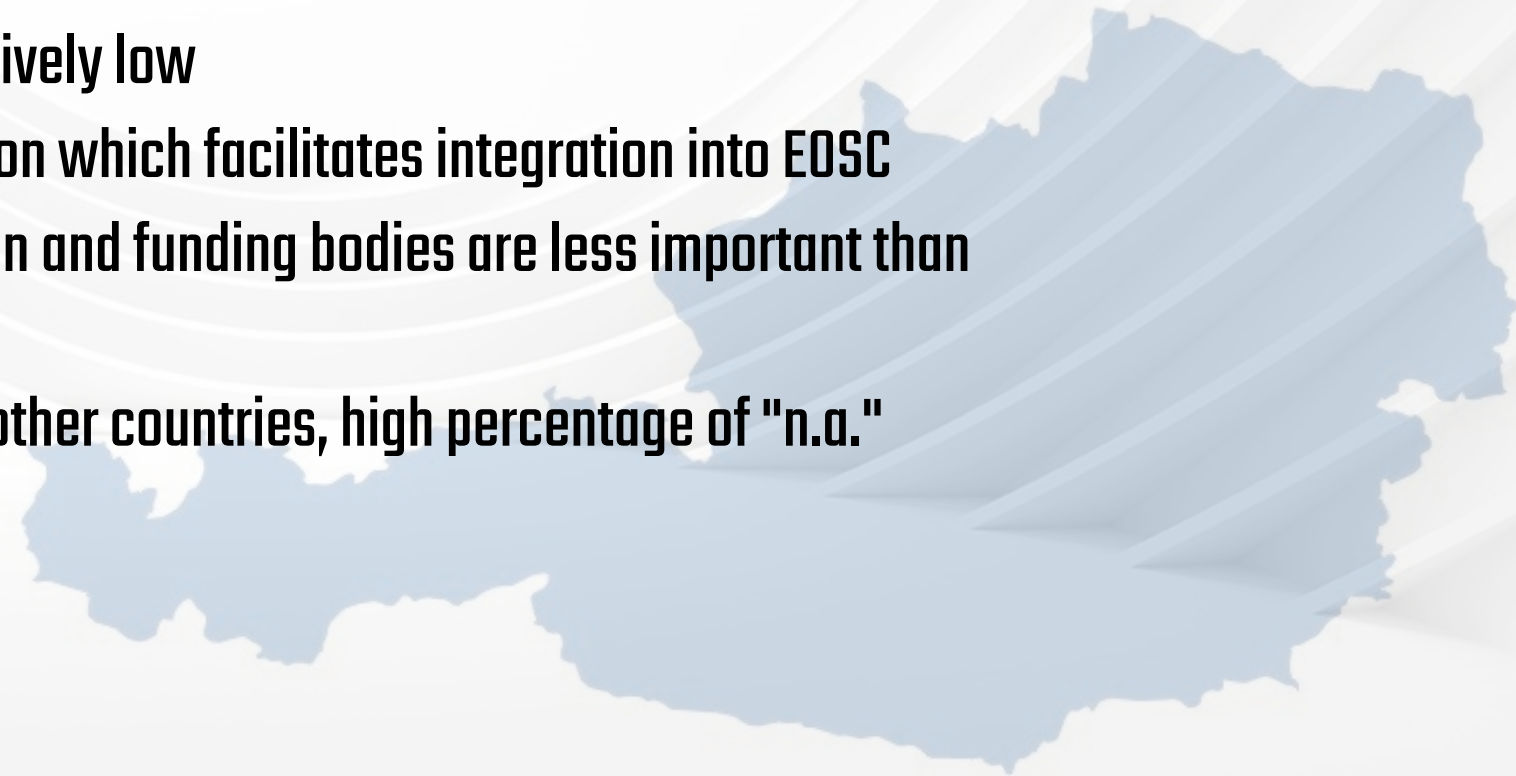
* Responses

- * high response rate among universities (of applied sciences)
- * few research infrastructures identified, but high response rate
- * relatively large number of e-infrastructures identified, average response rate



Country specifics – Austria

- * E-infrastructures
 - * familiarity with EOSC comparatively low
 - * ~16% are part of an organisation which facilitates integration into EOSC
 - * access restrictions: competition and funding bodies are less important than in other countries
 - * SLAs are less common than in other countries, high percentage of "n.a."



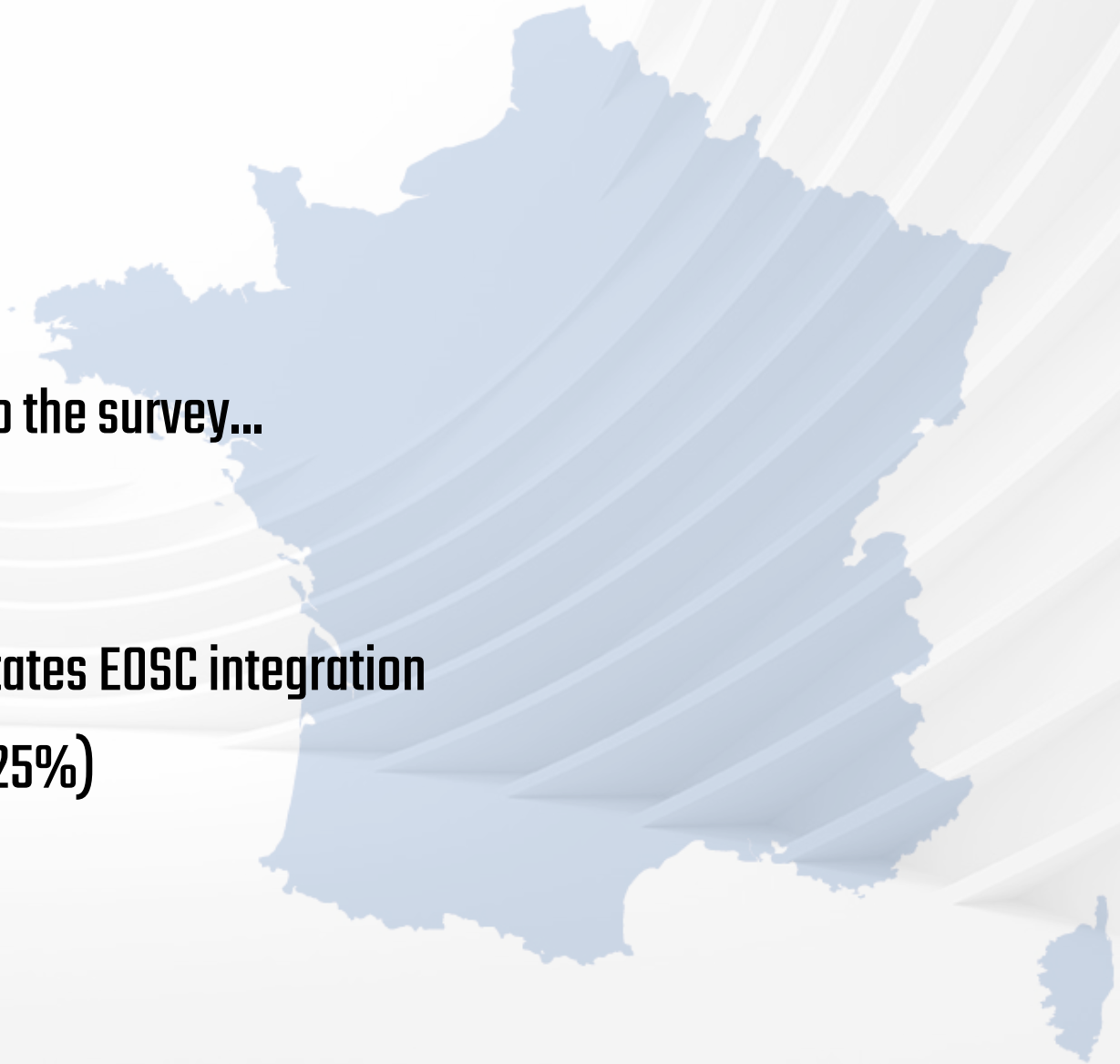
Country specifics – Belgium

- * High participation rate: 63%
- * esp. universities and research infrastructures participated
- * universities are familiar with EOSC and FAIR
- * RI less familiar with EOSC but (very) familiar with FAIR
- * EI less familiar with EOSC
 - * services esp. for natural sciences and medicine
 - * funding esp. from government (state, region, some EU and funding bodies)



Country specifics – France

- * Global response rates within the average
- * Of the French e-infrastructures that responded to the survey...
 - * ~60% consider to be familiar with EOSC,
 - * ~70% think they will benefit from the EOSC,
 - * ~54% are part of an organisation that facilitates EOSC integration
- * Universities are much less familiar with EOSC (<25%)



Country specifics – France

- * More than 1/2 of e-infrastructures declare to get own revenues
- * User training is offered more frequently in the country's language and less frequently in English
- * France has the highest level of centrally organised user support



Country specifics – Germany

- * Response rate: DE breakdown
 - * Funding bodies (includes federal and state ministries) = 22% (4 of 18)
 - * Research infrastructures (Leibniz, Helmholtz, MPG, Fraunhofer, a.o.) = 16.2% (77 of 476)
 - * Universities = 13.9% (54 of 390)
 - * E-infrastructures (e.g. data centers, data repositories) = 31.5% (94 of 298)
- * Reactions from respondents and challenges for the survey design
 - * Respondents are very interested to reply but asking for extension of deadline
 - * Challenge to include institutions with a wide coverage (some of them are RI, universities and EI at the same time and cover different communities as well)
 - * questionnaire reached experts (to answer specific questions) after long delay

Country specifics - Germany

- * Over 50% of the universities say the EOSC will affect their organisation, 75% expect to benefit from EOSC. Around 5% are already contributing to EOSC.
 - * At the same time, only 50% of the universities are familiar with FAIR, and less than 35% have regulations in place for research data management, open data and other aspects of FAIR (e.g. long term availability and related repositories.)
- * The research infrastructures are more familiar with FAIR and more (20%) are already contributing to EOSC.
- * A majority of the RI, E-I and universities indicated that they will contribute to EOSC.
- * We asked universities: "What research discipline(s) from your organisation will benefit mostly from EOSC?"
-> Expectations are low across disciplines.
- * Interest in EOSC is substantial. Data on the expectations of EOSC is not yet available.

Country specifics – Italy

* Responses:

- more funding bodies identified than in any other country
- exceptionally high response rate for e-infrastructures (>50%)
- more e-infrastructures provide services for humanities, fewer for natural sciences and social sciences
- low response rate from universities, may indicate the need to increase engagement

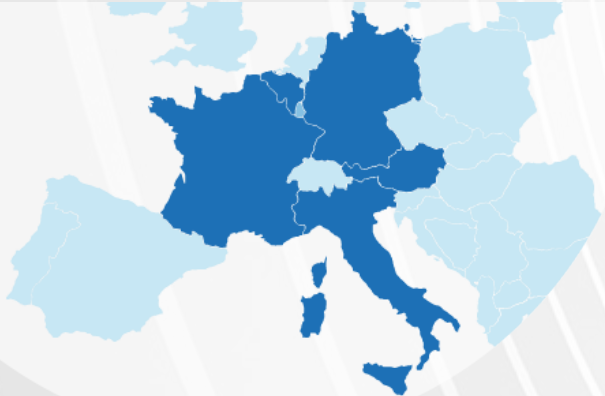
* Particularities about FAIRness:

- Repositories: below average: perception of own FAIR readiness and dissemination in public domain or cc for open reuse
- Repositories frequently perceive depositors to be "concerned" about the benefit and competitive disadvantage when sharing data (>35%), but only a minority is perceived as "very concerned" (<4%)
- Regulations are in place but many are informal, may indicate a lack of directions from policy levels
 - exception: publication of data in repositories (many written regulations)

Country specifics – Italy

* E-infrastructures:

- * rather **high familiarity** with EOSC
- * largest share of e-infrastructures **already contributing to EOSC (58%)**
- * rather **high expectations** to be affected by EOSC and to benefit from it
- * largest share indicating that contributing to EOSC will be **"very beneficial" for the respondent's organisation (>50%)**
- * largest share for authentication "member of national federation", services proxied to eduGAIN



Outlook



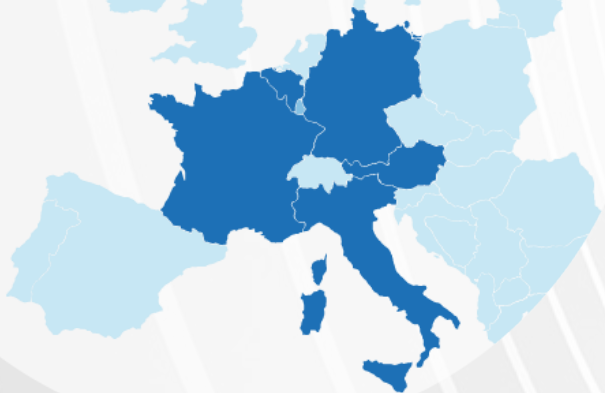
How will this information be used?

- * Provide a snapshot of the **state of the art of National Initiatives** for open research data and services
- * Gather information on: **readiness level, business models**, existing **policies** and **technologies, compliance** with EOSC
- * Help create a full picture at **European scale** and wider
- * Inform project's **strategy** & support and EOSC EB/GB

Next steps & what's in for you

- * One of the key project objectives is to support National Initiatives
- * Plan to work next on **policies & business models building** on the data collected
- * National Initiatives will get the report, results will be accessible under CC BY license
 - * use it for your NI strategy
 - * please provide feedback
 - * other surveying activities may be planned
- * get involved: interviews, workshop, forum to compare & discuss models





Q & A

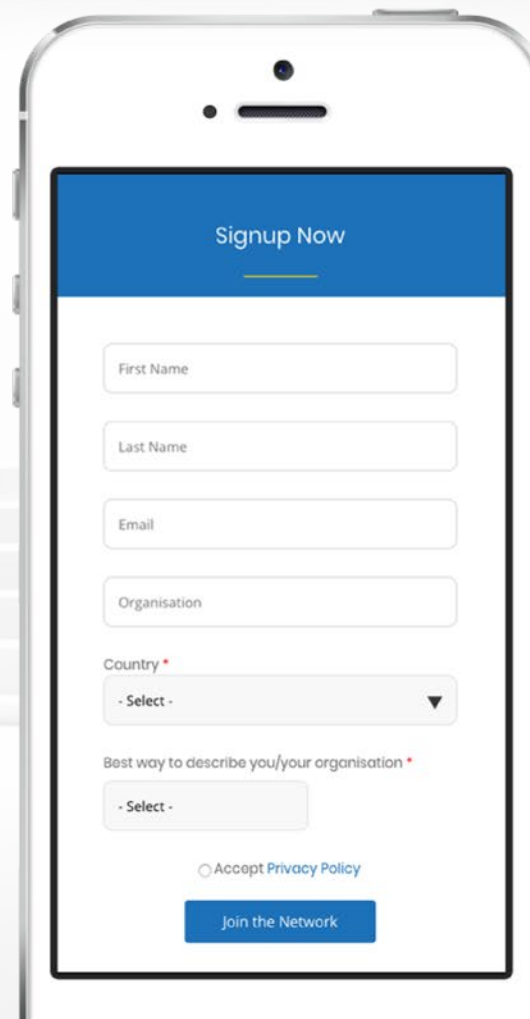
Time for questions



Engage with us

Join the EOSC-Pillar Network to get our upcoming updates on

- ★ Results of the National Initiatives Survey
- ★ Our prototype of a “National Services Registry”
- ★ Our Business Model and Sustainability Study
- ★ Launch of our Open Call for Services
- ★ Publication of our FAIR training courses and toolkit
- ★ Hackathons and webinars... and many more!



The image shows a smartphone screen with a 'Signup Now' form. The form has a blue header with the text 'Signup Now'. Below the header, there are input fields for 'First Name', 'Last Name', 'Email', and 'Organisation'. There is a 'Country' dropdown menu with a red asterisk and a '- Select -' option. Below that is a 'Best way to describe you/your organisation' dropdown menu with a red asterisk and a '- Select -' option. At the bottom of the form, there is a link to 'Accept Privacy Policy' and a blue button labeled 'Join the Network'.

Join now at
www.eosc-pillar.eu/join



EOSC-Pillar

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Thank you!

Get in touch with us!



www.eosc-pillar.eu



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Suggested Citation

* Data set:

Bodlos, A., Hönegger, L., Kaczmirek, L., Beckmann, V., Breton, V., Romier, G., van Wezel, J., Streit, A., Stevanovic, U., Galeazzi, F., Tanlongo, F., van Nieuwerburgh, I. (forthcoming). EOSC-Pillar "National Initiatives" Survey. Vienna: AUSSDA. doi:10.11587/VOSVGK.

* Presentation:

Bodlos, A., Hönegger, L., Kaczmirek, L., Beckmann, V., Breton, V., Romier, G., van Wezel, J., Streit, A., Stevanovic, U., Galeazzi, F., Tanlongo, F., van Nieuwerburgh, I. (April 2020). EOSC-Pillar "National Initiatives" Survey: Results - A glimpse into the data (Webinar). Available at: <https://www.eosc-pillar.eu/events/webinar-national-initiatives-survey-results>.